	Application No.	Applicant(s)
A	09/746,153	KIM ET AL.
Notice of Allowability	Examiner	Art Unit
	Cicely Ware	2634
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communicat GHTS. This application is subject	application. If not included ion will be mailed in due course. <b>THIS</b>
1. This communication is responsive to <u>25 June 2004</u> .		
2. The allowed claim(s) is/are 1-5, 8-9, 11-14, 17-18 are renumbered as 1-13 respectively.		
3. X The drawings filed on 25 June 2004 are accepted by the Examiner.		
<ul> <li>4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). <ul> <li>a)   All   b)   Some* c)   None of the:</li> <li>1.   Certified copies of the priority documents have been received.</li> <li>2.   Certified copies of the priority documents have been received in Application No</li> <li>3.   Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul> </li> <li>Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.</li> <li>5.   A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.</li> <li>6.   CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.  (a)   including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached  1)   hereto or 2)   to Paper No./Mail Date  (b)   including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date  (b)   including indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).</li> <li>7.   DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.</li> </ul>		
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview Summa Paper No./Mail 08), 7. Examiner's Ame	Date

Page 2

Application/Control Number: 09/746,153

Art Unit: 2634

## REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

The instant application discloses a finger for effectively processing signals received via multipath in a receiver of a mobile communication system and a RAKE receiver having the finger. Prior art references show similar methods but fail to teach "wherein said channel estimating apparatus includes a channel state estimator for receiving said multiplexed signals from said multiplexer to estimate channel information on the signals per the plurality of the antennas using a time division method, a demultiplexer for demultiplexing the output signals from said channel state estimator and a plurality of storage means for storing said demultiplexed signals from said demultiplexer, so that channel information on each of said antennas basis is estimated", as in claims 1 and 9, and "a first sub-step of extending the distance between said de-spread signals to produce transformed de-spread signals; and a second sub-step of transmitting said transformed de-spread signals to said fourth step and said fifth step, respectively", as in claim 18.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 09/746,153 Page 3

Art Unit: 2634

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cicely Ware whose telephone number is 703-305-8326. The examiner can normally be reached on Monday – Friday, 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 703-305-4714. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Cicely Ware

cqw September 17, 2004

SUPERVISORY PATENT EXAMINED TECHNOLOGY CENTER 2000